

City of Asheville North Carolina



REQUEST FOR BIDS AND PROPOSALS
BID REQUEST NO. 637-07

ONE REAR LOADER REFUSE
COLLECTION VEHICLE FOR THE CITY OF
ASHEVILLE PUBLIC WORKS DEPARTMENT

**BID OPENING DATE: FRIDAY, AUGUST 4, 2006,
AT 3:00 PM**

ISSUED BY: CITY OF ASHEVILLE PURCHASING DIVISION
P. O. BOX 7148
ASHEVILLE, NC 28802
PHONE: (828) 259-5950
NORWOOD R. DUNN, PURCHASING DIRECTOR

BIDS ARE TO BE SEALED AND MAILED TO THE ABOVE POST OFFICE BOX
OR DELIVERED TO THE PURCHASING DIVISION OFFICE LOCATED
AT NO. 3 HUNT HILL PLACE, ASHEVILLE, NC 28801

CITY OF ASHEVILLE, NORTH CAROLINA

PURCHASING DIVISION

Bid Request No. 637-07

Date: July 7, 2006

REQUEST FOR BIDS AND PROPOSALS ON

ONE REAR LOADER REFUSE COLLECTION VEHICLE
FOR THE CITY OF ASHEVILLE PUBLIC WORKS DEPARTMENT

Pursuant to General Statutes of North Carolina, Section 143-129, as amended, sealed bids and proposals, subject to the conditions and specifications herein, are invited for furnishing the following equipment, materials, services or repair work. **All bids will be received by the City of Asheville Purchasing Division until 3:00 p.m. on Friday, the 4th day of August, 2006, at which time they will be publicly opened and read.**

TERMS: Net 30 Days

CITY OF ASHEVILLE, N. C.

DELIVERY: ASAP - Bidder Specify Best Delivery

BY: _____
Norwood R. Dunn, Purchasing Director

POSITIVELY NO BIDS CONSIDERED UNLESS SUBMITTED ON THIS FORM

NOTICE TO BIDDERS: All tax imposed upon any article on which you are bidding shall be shown as separate items and in no case included with price bid. Failure to comply with these conditions will be considered grounds for rejection.

ITEM NO.	QUANTITY	DESCRIPTION	UNIT	UNIT PRICE	EXTENSION
		ONE (1) REAR LOADER REFUSE COLLECTION VEHICLE FOR THE CITY OF ASHEVILLE PUBLIC WORKS DEPARTMENT PER THE ATTACHED SPECIFICATIONS, TERMS AND CONDITIONS.			
		<u>BIDDERS PLEASE NOTE:</u> 1. <u>SPECIAL TERMS AND CONDITIONS</u> – BID PAGE 6, ITEM NO. 9 - EXCEPTIONS TO SPECIFICATIONS OR ALTERNATE BIDS. THE DEADLINE FOR THE CITY'S PURCHASING DIVISION TO RECEIVE EXCEPTIONS TO SPECIFICATIONS, ETC. IS BY 3:00 PM ON FRIDAY, JULY 21, 2006.			
					CONTINUED

COMPANY NAME: _____
 ADDRESS: _____
 CITY/STATE/ZIP: : _____
 FEDERAL TAX I.D. NO.: _____
 EMAIL ADDRESS: _____

SIGNED: _____
 DATE: _____
 TELEPHONE: _____
 FAX NUMBER: _____

CITY OF ASHEVILLE, NORTH CAROLINA

PURCHASING DEPARTMENT

REQUEST FOR FORMAL PROPOSALS

ITEM NO.	QUANTITY	DESCRIPTION	UNIT	UNIT PRICE	EXTENSION
A.	1	<p>20-YARD REAR LOADER REFUSE COLLECTION VEHICLE FOR THE CITY OF ASHEVILLE PUBLIC WORKS DEPARTMENT PER THE ATTACHED SPECIFICATIONS, TERMS & CONDITIONS. RE: SPECIFICATION PAGE 12 THROUGH 26</p> <p>BID: <u>REAR LOADER</u> <u>20 CUBIC YARD CAPACITY</u></p> <p>MFG'R: _____</p> <p>MODEL: _____</p> <p>CAPACITY _____ CUBIC YARDS</p> <p><u>CAB & CHASSIS</u></p> <p>MFG'R: _____</p> <p>MODEL: _____</p> <p>YEAR: _____</p> <p><u>PACKER BODY</u></p> <p>MFG'R: _____</p> <p>MODEL: _____</p> <p>YEAR: _____</p> <p>DELIVERY WITHIN _____ DAYS A.R.O.</p>	EACH	\$ _____	\$ =====

COMPANY NAME: _____
SIGNED: _____ TITLE: _____

GENERAL CONDITIONS

1. All bids and proposals shall be for furnishing apparatus, supplies, materials, equipment and/or work and services in accordance with the applicable plans and specifications prescribed by The City of Asheville. From the date shown until the date of opening the proposals, the plans and specification of one proposed work and/or a complete, description of the apparatus, supplies, materials or equipment and/or work and services are an will continue to be on file in the office of the Director of Purchasing for City of Asheville, N. C., during usual office hours, and available to prospective bidders.
2. The City reserves the right to evaluate all bids especially where there is a wide range in specifications or to reject any and all bids and proposals, and further specifically reserves the right to make the award and/or awards in the best interest of the City of Asheville.
3. Time, in connection with discount offered, will be computed from date of delivery of the supplies or materials on delivery at destination when final inspection and acceptance are at those points, or from date correct invoice is received if latter is later than the date of delivery. Guaranteed maximum price must be shown in all bids.
4. In case of default of the contractor, the City may procure the articles or services from other sources and hold the contractor responsible for any excess cost occasioned thereby.
5. Payment by City due thirty days after delivery in Asheville and inspection unless otherwise specifically provided, subject to any discounts allowed.

BID

In compliance with the above request for bids, and subject to all the conditions thereof, the undersigned offers and agrees, if this bid be accepted within 60 days from the date of the opening, to furnish any or all of the items upon which prices are quoted, at the price set opposite each item, and unless otherwise specified, within _____ days after receipt of order, deliver F.O.B. Asheville, NC. Discounts will be allowed for prompt payments as follows: 10 calendar day, _____ per cent; 15 calendar days, _____ per cent; 20 calendar days, _____ per cent; 30 calendar days _____ per cent.

Bidder: _____ **Address:** _____ **Zip:** _____

By: _____ **Title:** _____
(Authorized to sign bids)

Telephone Number: _____

Date: _____

=====

MAILING INSTRUCTIONS

1. Bidder to submit a complete, fully executed bid document.
2. If mailed, bid should be forwarded by certified U. S. mail. Please address and mark your bid as shown below.

<p>CITY OF ASHEVILLE, N. C. PURCHASING DIVISION P. O. BOX 7148 ASHEVILLE, N. C. 28802 BID REQUEST NO. 637-07 ONE REAR LOADER REFUSE VEHICLE TO BE OPENED 3:00 O'CLOCK P.M. FRIDAY, AUGUST 4, 2006</p>

3. If forwarded other than by mail, delivery must be made directly to City of Asheville, Purchasing Division, No. 3 Hunt Hill Place, Asheville, North Carolina 28801.

NOTE: IF MAIL OR DELIVERY BY ANY OTHER MEANS IS DELAYED BEYOND THE DATE AND HOUR SET FOR BID OPENING, PROPOSAL THUS DELAYED WILL NOT BE CONSIDERED.

CITY OF ASHEVILLE
PURCHASING DIVISION

SPECIAL TERMS AND CONDITIONS FOR OF ONE (1) 20-YARD
REAR LOADER REFUSE COLLECTION VEHICLE FOR THE
CITY OF ASHEVILLE PUBLIC WORKS DEPARTMENT

1. **DETAILED SPECIFICATIONS:** Detailed specifications for this equipment are included as an attachment with the bid request.

Bids to be submitted in accordance with the attached specifications and these Special Terms and Conditions, both of which require doing all that is necessary, proper, or incidental to the furnishing of the equipment identified herein. All things not expressly stated in the attached specifications or Special Terms and Conditions but involved in carrying them out must be included in bidder's proposal as though they were specifically stated.

2. **NOTICE TO BIDDERS:** All bids are subject to the provisions of the instructions to Bidders, special terms and conditions specific to this Invitation for Bids, the specifications, and General Contract Terms and Conditions. The City of Asheville objects to and will not evaluate or consider any additional terms and conditions submitted with a bidder response. This applies to any response appearing in or attached to the document as part of the bidder's response. DO NOT ATTACH ANY ADDITIONAL TERMS AND CONDITIONS. By execution and delivery of a proposal, the bidder agrees that any additional terms and conditions, whether submitted purposely or inadvertently, shall have no force or effect. It shall be the bidder's responsibility to read this entire document, review all enclosures and attachments, and comply with all requirements specified herein.
3. **ISSUING OFFICE:** This bid request is issued by the City of Asheville Purchasing Division, No. 3 Hunt Hill Place, P. O. Box 7148, Asheville, North Carolina 28802. All correspondence and inquiry should be made to this address.
4. **CLARIFICATIONS/INTERPRETATIONS:** Any and all questions regarding this document must be addressed to the City of Asheville Purchasing Division. Technical inquiries may be directed to the individual named herein. Any and all revisions to this document shall be made only by written addendum from the City of Asheville Purchasing Division. Therefore, no oral statements by any person shall modify or otherwise affect the terms, conditions, or specifications stated in

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this request for bids and proposals. The bidder is cautioned that the requirements of this bid can be altered only by written addendum and that verbal communications from whatever source are of no effect.

5. **COMPLIANCE WITH RULES AND REGULATIONS:** The equipment furnished must comply with all applicable provisions of the Occupational Safety and Health Act (OSHA), the American National Standard Institute (ANSI) and the Federal Motor Vehicle Standards of the U. S. Department of Transportation. The equipment furnished shall be capable of passing any applicable N. C. State motor vehicle inspection.
6. **GENERAL REQUIREMENTS:** The proposed equipment shall be current model year production and furnished complete and ready for use as required by the terms of these specifications.

The equipment furnished shall be the manufacturer's latest listed and published stock model, or models which meet all the applicable requirements of these specifications. Specifications may require that certain makes and models of vehicles, auxiliaries and/or accessories be provided.

All design, materials, and workmanship shall in every respect be in accordance with the best current practices in the industry and all materials used shall be new.

7. **TECHNICAL INQUIRIES:** Questions regarding specifications to be directed to Mr. Chris Dobbins, Fleet Manager, Monday through Friday, 8:30 a.m. – 5:00 p.m. Telephone 828-259-5702.
8. **MINOR DEVIATIONS/EXCEPTIONS TO SPECIFICATIONS:** Minor deviations from the provisions of these specifications may be considered to permit manufacturers to follow their standard manufacturing processes; however, all proposed minor deviations must be explained in detail and submitted within the exceptions to specifications, time frame identified herein.
9. **EXCEPTIONS TO SPECIFICATIONS OR ALTERNATE BIDS:** In all cases equipment must be furnished as requested, and where brand names are used, consider the term "or equal" to follow. However, written approval for any proposed substitution or change in specifications must be obtained by bidder prior to the close of bids. Requests for approved equals, clarifications or changes in specifications, and/or protests of specifications must be received by the City of Asheville in writing, not less

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than fourteen (14) days before the date of scheduled bid opening. Such requests should be mailed to City of Asheville, Purchasing Division, P. O. Box 7148, Asheville, North Carolina 28802. Mark envelope “EXCEPTIONS TO SPECIFICATIONS”.

Any request for an approved equal, change in specification or protest of specifications must be fully supported with technical data, test results, or other pertinent information and evidence that the substitute offered is equal to, or better than, the specification requirement. In the event that clarifications or changes to bid specifications are necessary or if a proposed substitution is approved during the exception process, the City of Asheville will, if necessary, postpone the scheduled opening of bids so as to provide at least seven (7) days between the mailing of the amended bid specifications and the revised bid opening date.

Changes to specifications will be made by written addendum. Prospective bidders may make appointments to discuss these specifications. This, however, does not relieve prospective bidders from the requirement for a written request for clarification or change to the specifications.

Bidder's failure to request exceptions to specifications or approved equals as stated above will be interpreted as the bidders' intent to comply fully with the requirements as written. Conditional or qualified bids shall be subject to rejection in whole or in part.

The City of Asheville reserves the right to postpone bid openings for its own convenience.

10. **NONCONFORMING TERMS AND CONDITIONS:** A bid response that includes terms and conditions that do not conform to the terms and conditions in this bid document is subject to rejection as nonresponsive. The City of Asheville reserves the right to permit the bidder/vendor to withdraw nonconforming terms and conditions from its bid response prior to a determination by the City of Asheville of nonresponsiveness.
11. **BIDDERS SUBMITTALS:** Bidder must furnish all information requested herein including descriptive literature and/or complete specifications covering the products offered. Reference to literature submitted with a previous bid will not satisfy this provision. Bids which do not comply with these requirements will be subject to rejection. All documents submitted should bear the name of the bidder.

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12. **EXPENSES INCURRED IN PREPARING BID:** The City of Asheville accepts no responsibility for any expense incurred by the bidder in the preparation and presentation of a bid. Such expenses shall be borne exclusively by the bidder.
13. **CONTRACT/AWARD:** Pursuant to the laws governing public contracts in North Carolina, the successful bidder's/vendor's response to this Request for Bids and Proposals and any addenda thereto, plus the City's issuance of a City of Asheville Purchase Order for the proposed goods and/or services shall constitute a binding contract.
14. **OPTION TO PURCHASE ADDITIONAL REQUIREMENTS:** Subject to the successful bidder's acceptance, the City reserves the option to purchase additional equipment as specified herein at the price bid and awarded in this Request for Bids and Proposals.
15. **INDEMNIFICATION:** The bidder/vendor covenants to save, defend, keep harmless, and indemnify the City of Asheville and all of its officers, departments, agencies, agents, and employees from and against all claims, loss, damage, injury, fines, penalties and cost - including court costs and attorney's fees, charges, liability, and exposure, however, caused - resulting from, arising out of, or in any way connected with the bidder's/vendor's negligent performance or nonperformance of the terms of the contract.
16. **ASSIGNMENT:** During the performance of the contract, the bidder/vendor shall not assign, transfer, convey, sublet, or otherwise dispose of any award or any or all of its rights, title, or interest therein, without the prior written consent of the City of Asheville.
17. **VENDOR APPLICATION AND PRIVILEGE LICENSE:** Bidders/vendors that have not previously submitted (within last 12 months) a vendor's application and/or privilege license should download an application from the City website at www.ashevillenc.gov and submit with their bid.
18. The vendor shall be responsible for seeing that any and all laws of the State of North Carolina concerning certificate of origin, title, transit or transportation documents, et al, are complied with in all respects.
19. Where reference is made to equipment to be "furnished" or "provided" by the bidder these words shall be read to mean suitably installed on each piece of equipment.

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20. **VENDOR SUPPORT/SERVICE AND PARTS:** The vendor and/or manufacturer bidding on these specifications must describe in writing to be submitted with their bid, its ability to provide repair parts and technical service in the form of a service representative, including the maximum time from receipt of notice to arrival of parts or the service representative. The manufacturer, whether they are the vendor or not must be satisfactory to the City of Asheville from the standpoint of experience, reliability, and demonstrated ability to manufacture equipment comparable as to size and type as that required by the specifications, and shall have manufactured and sold equipment of the size and type specified which has operated satisfactorily in the field for a minimum of one year. The City of Asheville reserves the right to reject bids from vendors that have failed to perform satisfactory under previous contracts with the City of Asheville and/or vendors that cannot produce satisfactory evidence that they can furnish promptly all spare parts needed for ordinary service and repair of the equipment herein specified.
21. **INSPECTION, TRAINING, PERFORMANCE TEST AND ACCEPTANCE:**
- a. Upon delivery the equipment will be subject to inspection to verify conformance with specifications by the staff of the City's Fleet Management Division and the Public Works Department.
 - b. Upon completion of the initial inspection and prior to performance testing by the City, the vendor will be required to conduct on-site technical training of City personnel in operation and maintenance procedures. Vendor must include in their bid any or all cost associated with providing this on-site training.
 - c. Upon completion of on-site training the equipment may be required to undergo on route testing prior to acceptance. Performance testing will be performed by City personnel during regular scheduled work days.
 - d. Any defects or failure of equipment to perform or comply with any requirements of the City specifications must be immediately remedied by the vendor at the vendor's own expense prior to acceptance by the City.
22. **INDEMNIFICATION:** The successful bidder/vendor agrees to indemnify and hold harmless the City of Asheville against any and all claims or causes of action for property damage or personal injury arising out of or relating to the negligence of the successful bidder/vendor, its officers, employees or agents during the test period for the operation of the vehicle prior to acceptance of the vehicle by the City of Asheville.

Continued

23. **WARRANTY:** Bidder to include the warranty provisions as outlined in bid specifications.
24. **TAX EXEMPTIONS:** The City of Asheville is exempt from Federal Excise Tax but not State and Local Sales Tax. Sales tax should not be included in bid prices, but may be added as separate items.
25. **SUBMITTALS:** Bidders to submit one (1) original bid package and one (1) complete copy.
26. **LEASE PURCHASE FINANCING:** Pursuant to N. C. General Statute 160-A-20, the City of Asheville may secure lease/purchase financing arrangements for some or all equipment proposed. All bids for the sale of this equipment must provide for payment by third party lease/purchase arrangements.
27. **EQUIPMENT DEMONSTRATION:** Each bidder shall be prepared to schedule a demonstration of the type of equipment proposed at a location mutually agreeable to the bidder and City staff members. The location should be within reasonable traveling distance from the City of Asheville and the City of Asheville shall be responsible for the travel expense of its staff members in attending any such demonstration. Equipment demonstration may be of vendor owned equipment or third party owned equipment at the discretion of the bidder.
28. **DELIVERY:** Delivery shall be made FOB: City of Asheville, Fleet Management Division, 173 South Charlotte Street, Asheville, North Carolina 28801. Bidder should give minimum seven (7) days notice of delivery of vehicles to Chris Dobbins, Fleet Manager. Telephone number 828-259-5702.
29. **COMMERCIAL GENERAL LIABILITY INSURANCE:** The successful bidder shall, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of commercial general liability insurance:

Products/Completed Operations Aggregate	\$2,000,000
Personal and Advertising Injury	\$1,000,000
Each Occurrence	\$1,000,000

Coverage shall be written on a Commercial General Liability form and must include finished products/completed operations. The policy shall be written on an occurrence form and shall include Contractual Liability coverage.

Continued

The required limits can be provided by one or more policies provided all other insurance requirements are met.

Coverage shall be provided by a carrier(s) rated "Excellent" by A.M. Best.

Within 14 days following notice of award, the successful bidder shall furnish the City of Asheville with a current Certificate of Insurance with coverages listed above. The certificate shall be made out to the purchaser and be an original, no photocopies shall be accepted. The Certificate of Insurance shall provide that the City be given 30 days advance notice of cancellation, nonrenewal or material change in coverage.

30. **EVALUATION AND SELECTION OF BIDS:** The evaluation of vendor bids shall center on the match between the stated specifications and other requirements included in the final bid request and the vendor's proposal including selection of the lowest responsible bidder, with consideration of past performance, service record, and reliability. The statutory provisions controlling purchasing by local governments in N. C. (GS 143) includes selection standards for use in making of awards. The provision reads, "All contracts shall be awarded to the lowest responsible bidder, taking into consideration quality, performance, and the time specified in the bids for the performance of the contract". The City of Asheville reserves the right to accept or reject any or all bids and proposals and further specifically reserves the right to make the award or awards in the best interest of the City of Asheville.
31. All bids shall be made firm for no less than sixty (60) days.

CITY OF ASHEVILLE
PURCHASING DIVISION

ONE (1) 20-YARD REAR LOADER REFUSE COLLECTION VEHICLE
FOR THE CITY OF ASHEVILLE PUBLIC WORKS DEPARTMENT

Minimum technical specifications for three (1) Rear Loader Refuse Truck to be used by the Public Works department, Sanitation Division. Unit shall be new, unused and manufacturer's latest production model. All Federal, State and OSHA requirements and standards shall be met.

NOTE: All bidders shall respond to each category below. Any 'no" responses or deviations shall be explained in the space provided:

<u>SPECIFICATION</u>	<u>COMPLIES</u>	<u>IF NO: DEVIATES AS NOTED</u>
One (1) Rear Loader Refuse Truck		
1) Capacity		
a) The packer body shall have a capacity, excluding the receiving hopper, of not less than: 20 cubic yards minimum.		
b) The hopper shall have a capacity of three and nine tenths (3.9) cubic yards minimum.		
c) The structural integrity of the body shall allow high density loading of up to 1,000 pounds per cubic yard of normal refuse.		
d) Packing cycle time 16-18 seconds. Reload time 6-7 seconds.		
2) Body Dimensions		
a) Maximum width, outside 96"		
b) Maximum overall length of the body and tailgate combined shall not exceed the following: 235 inches		
c) Body width, inside 89"		
d) Body height, inside 79"		
e) Body height, outside (above chassis) 96"		
3) Body Construction		
a) The body interior shall have a smooth floor without a trough. The sides and roof shall also be smooth.		

COMPANY NAME: _____

BY: _____

b) In order to prevent damage from corrosion and fire, no hydraulic cylinders, valve or other hydraulic components shall come in contact with refuse packed into the body.		
c) Body sides & roof shall be of curved stress skin construction interfacing with the corner mainframe bolsters. Rear bolsters shall be 5" x 20" formed channel @ the major upper & lower connecting points of the mainframe. Front bolster shall be a 5" x 8" formed channel @ the major upper & lower connecting points. All side wall and roof members shall be continuous welded.		
d) Body roof shall be minimum 8 gauge, 80,000 PSI minimum yield hi-tensile steel sheet fully welded to a full length 11 gauge 50,000 PSI yield roof crown rail to contain and dissipate forces equally through the body structure.		
e) Body sides shall be minimum 8 gauge, 80,000 PSI minimum yield high tensile steel sheet, fully welded to roof crown rail and to a 4.7" x 18" floor skirt rail.		
f) Rear mainframe body side bolsters shall be a minimum 3" x 20" and contoured shaped to sidewall with, minimum 7 gauge 80,000 PSI minimum yield. Reinforcement bolsters shall be full welded to the curved body side sheets.		
g) Body Floor shall be flat full width and must not have inboard guide rails or a trough. Floor shall be a minimum 7 gauge 80,000 PSI minimum yield steel sheet.		
h) Floor longitudinals (long members) shall be a formed trapezoidal shape 9.6" x 11" with a 3.3" base sill of 7 gauge 80,000 PSI minimum yield formed steel channels and shall be continuous welded to the floor sheet.		
i) Floor cross members shall be 3" x 6" x 7 gauge 80,000 PSI minimum yield steel channels. Cross members shall be interlaced through the long members on approximately 18" centers to fully support the floor. Cross members shall be full width, single piece.		

COMPANY NAME: _____

BY: _____

4) Tailgate Dimensions		
a) Maximum overall width at the hopper opening shall be 84 1/2".		
b) Inside tailgate loading width shall be minimum of 80".		
c) Hopper opening height shall be minimum of 55".		
d) Loading sill height below chassis rail shall be 3.8" exclusive of any container handling mechanisms.		
e) Overall height above the chassis frame with the tailgate raised shall not exceed 207 1/2".		
5) Tailgate Construction		
a) Tailgate sides shall be single piece 3/16" 150,000 PSI minimum yield 321 BHN abrasion resistant plate steel.		
b) Tailgate side reinforcement shall consist of 6" x 1 7/8" 11 gauge 50,000 PSE formed steel channels fully welded to the perimeter edge of the tailgate side sheets. An interlaced network of 6" x 1 7/8" 11 gauge 50,000 PSI and 6 5/8" x 1 7/8" 7 gauge 80,000 PSI minimum yield formed steel channels shall also be fully welded to the tailgate side for superior support.		
c) Hopper floor shall be minimum 3/16" 150,000 PSI minimum yield 321 BHN abrasion resistant steel plate.		
d) Hopper floor lateral reinforcement shall consist of a 3/16" 80,000 PSI minimum yield formed "Z" channel cross member. Forward hopper reinforcements shall be provided by a lateral network of 3/16" 80,000 PSI and 3/8" 50,000 PSI minimum yield formed steel channel cross members.		
e) Hopper front compaction face shall be minimum 5/16" 150,000 PSI minimum yield 321 BHN abrasion resistant steel plate.		
f) Tailgate shall be equipped with heavy duty 1" diameter turnbuckles, one on each side of body, to secure the tailgate in the closed position against the body to prevent leakage.		

COMPANY NAME: _____

BY: _____

g) Two (2) grab handles (3/4" hot roller steel bar) shall be located on each side of the tailgate for operator safety and comfort. One handle is to be mounted horizontally no less than 49" above the riding step. The other shall be mounted in the vertical plane, with the bottom edge no less than 44" above the steps. The latter shall also be attached to the rearward face of the perimeter of the tailgate reinforcement. (If unit is equipped with a container handling attachment, the latter will be omitted.)		
h) The rear steps shall be bolt-on design fabricated from 12 gauge, 3 diamond Grip Strut, slip resistant, self-cleaning material. Located on each side of the tailgate, they shall provide for a minimum of 396 square inches of footing area for a single rider. The steps must conform to ANSI standards.		
i) The tailgate shall be raised with two (2) single acting 4" bore x 26" stroke hydraulic cylinders. The cylinders shall incorporate an integral orifice which will limit the descent speed of the tailgate in the event of hydraulic failure.		
j) The tailgate shall be equipped with a one piece, removable rubber gasket. The gasket, which shall have a durometer rating of 35-45 and tensile strength of 1500-1800 PSI shall extend across the entire bottom width of the tailgate and provide for water tight seal vertically up the side for no less than 21".		
k) The hopper sill shall be formed from 3/16", 80,000 PSI high tensile steel.		
6) Packing Mechanism		
a) Packing cycle control shall be mechanical, lever operated on the right hand side of the tailgate. A two lever design, the operator shall have the capability to start, stop and reverse the direction of any function at any time throughout the packing cycle.		
b) Packing mechanism control valve shall be centrally located within the upper confines of the hopper, under upper light cross members.		

COMPANY NAME: _____

BY: _____

c) The packing cycle time shall be no greater than 25-27 seconds. Operator reload time shall be no greater than 9-11 seconds.		
d) Packing mechanism shall consist of two primary structures, the upper packing panel and the packing blade.		
7) Upper Packing Panel		
a) The upper packing panel shall be mounted to the tailgate weldment with two (2) sets of upper and lower link arms. Each upper link arm shall be secured to the panel and tailgate with two (2) 2" diameter induction hardened C-1045 cold drawn steel pins. The lower link arms shall be connected to the tailgate with 2" diameter induction hardened C-1045 pins and to the panel with 2 5/16" heat treated, induction hardened 4340 cold rolled steel hinge pins.		
b) The upper packing panel shall be constructed from 3/16" 150,000 PSI minimum yield, 321 BHN abrasion resistant steel plate in all areas of refuse contact. The packing blade hinge lugs shall be constructed from 3" thick 50,000 PSI minimum yield steel plate.		
c) Primary compaction by the upper panel shall be accomplished with two (2) double acting 5" bore x 36" stroke hydraulic cylinders. Located outside of the hopper confines, the cylinders shall produce a minimum force of 73,600 pounds.		
d) Forward hinged side doors on each side of the tailgate shall provide access to the outside cylinders. The doors shall be easily opened without hand tools. The side doors shall prevent operator contact with the packing mechanism components as well as protect the components from the outside elements.		
8) Packing Blade		
a) The packing blade shall be mounted to and pivot on the upper panel hinge lugs with heat treated, induction hardened ASTM 4340 cold rolled 3" steel pins.		

COMPANY NAME: _____

BY: _____

b) The packing blade shall be constructed with 3/16" 150,000 PSI minimum yield, 321 BHN, abrasion resistant steel plate and capable of resisting shearing and breaking forces of large objects during the compacting cycle.		
c) Pre-compaction by the packing blade shall be accomplished with two (2) double acting, 5 1/2" bore x 24" stroke cushioned hydraulic cylinders. Located inside the hopper confines, the packing blade cylinders shall produce a minimum force of 111,670 pounds (33.25 PSI).		
d) All packing mechanism links shall have replaceable hardened steel bushings for extended service life. Wear shoes or rollers shall not be acceptable in high compaction packing mechanisms.		
e) All cylinder and link pivot pins shall be kept in place with minim Grade 5 retaining bolts, lock nuts and lock collars.		
f) Each hopper full of material shall be compressed between the packing blade, upper panel and ejector panel. The ejector panel shall be automatically advanced by an ejector unload valve. No operator attention shall be required to advance the ejector panel as the body fills.		
g) The packing mechanism shall be equipped with an "automatic crowd" pressure sensing device, which will enable the packing mechanism to find a path through the load which will neither stall the mechanism nor damage the structure thereby prolonging the hopper floor and mechanism life.		
9) Discharge of Load		
a) The load shall be discharged by means of a positive ejection system. A double acting, telescopic hydraulic cylinder shall extend and retract the ejector panel the full length of the body. The ejector cylinder shall attach to the body and the ejector panel via cold-drawn, C 1045, pins having a minimum diameter of 1 1/2" and positioned diagonally to minimize possible damage from objectionable liquids.		
b) The ejector cylinder shall have the following dimensional characteristics: 4 stages; 6" bore; 134.1 " stroke		

COMPANY NAME: _____

BY: _____

c) The ejector panel face sheet shall be constructed from 11 gauge hi-tensile steel. Four (4) hi-tensile formed steel channels shall span horizontally, with one (1) trapezoidal cross member at floor level. The vertical panel corner posts shall be 0.375 hi-tensile steel. A 7 gauge hi-tensile steel protective covering shall be provided to keep refuse from coming in contact with the ejector cylinder.		
d) The ejector panel shall extend and retract without the assistance of clamp bars or associated hardware.		
e) Smooth movement of the ejector panel in the body shall be achieved with two (2) cast alloy shoes on each side of the ejector panel. Shoe castings shall conform to specifications 28C358-A0201 possessing a minimum contact surface of 18 square inches each shoe side and having a minimum hardness of 260 BHN. Each shoe shall pivot on a minimum 2" diameter, C 1045, removable cold drawn stub pin held within the fully boxed 4" x 12" base frame of the ejector panel. Four (4) shoes shall be provided for each ejector panel and shoes must be replaceable without removing the ejector from the body. Rollers shall not be used.		
f) Ejector guide bottom edge shall be located .375" above longitudinal floor corners. The guide channel shall have interior dimensions of 3/5" x 4.2". The top flange of the guide channel shall be reinforced with a 45° plate, which shall also serve as a self-cleaning device. The track shall also minimize pivotal movement of the ejector panel as refuse is packed against it.		
g) Plastic (non-metallic) ejector shoe material is not acceptable.		
h) The rod end of the ejector cylinder shall be pin mounted at the front of the body to the main lateral bolster of the body longitudinal members thus affording maximum resisting bending moment.		

COMPANY NAME: _____

BY: _____

10)Controls		
a) The ejector panel and tailgate raise controls shall be mounted outside the body on the front left hand side of the body. Direct connection of the control handles to the valve spool shall exist to minimize moving parts and allow for ease of service.		
b) An electrical device shall be supplied to automatically raise the engine speed to the proper RPM during the packing cycle.		
c) An additional throttle advance switch shall be located at the front left hand side of the body within hands reach of the ejector and tailgate raise controls.		
d) Power take off controls shall be conveniently mounted in the cab, preferably to right side of the driver.		
11)Hydraulic System		
a) A heavy duty, high volume pump motive drive shall be a front engine crankshaft mounted drive. The pump drive shall be activated by an electrical overspeed shift system. provided and shall The pump drive shall be activated by:		
i) Electrical overspeed control Shift PTO		
ii) Air Signal Air Shift PTO		
iii) Mechanical Cable Shift PTO		
iv) Front Engine Crank Driven Pump		
b) The pump motive drive must run quietly. Gearing shall be selected for minimum engine RPM compatible with recommended pump RPM for correct operating pressure and rates of flow for the refuse body.		
c) To minimize hydraulic cylinder weight, a high-pressure hydraulic system shall be employed. The operating pressure of the system shall be 2400-2500 PSI. Low-pressure systems shall not be acceptable.		
d) A heavy-duty gear pump shall be provided with a rated capacity of 28 GPM at 1200 RPM.		
e) The hydraulic pump shall be designated to operate continuously with peak loading at frequent, short intervals.		

COMPANY NAME: _____

BY: _____

f) The hydraulic system shall incorporate adjustable relief valves to protect all components from excessive pressure and overloads.		
g) All hydraulic tubes will be securely clamped to prevent vibration, abrasion, and excessive noise.		
h) All hydraulic tubes running the length of the body shall be routed over the roof on the street side bias of the body.		
i) All hydraulic hoses shall conform to S.A.E. standards for designed pressure. Bends shall not be less than recommended by S.A.E. standards. Flat spots in hoses will not be acceptable.		
j) All high-pressure hoses shall be sheathed with fabric protective covering.		
k) The hydraulic oil reservoir shall be frame mounted underneath the body and shall have a gross capacity of 50 gallons filled with hydraulic fluid.		
l) The tank shall be complete with a screened fill pipe and cap, filter breather, clean out cover, and shut off valve.		
m) The hydraulic system shall be protected by a five (5) micron return line filter along with a 100 mesh (140 micron) reusable oil strainer in the suction line.		
n) The return line filter shall also include an in-cab filter by-pass monitor, which shall alert the operator or service personnel when the filter is in need of replacement.		
o) All multi-spool control valves shall be of a section design such that servicing would not require replacement of the entire valve assembly.		
12)Hydraulic Cylinders		
a) All cylinders must have a working pressure rating of no less than 2500 PSI.		
b) Inside packing cylinders must be of the internal cushion design so that hydraulic shock and audible noise is minimized. This shall be accomplished by a design which will decrease the speed of the cylinder for the last one-half (1/2") inch of cylinder stroke on both directions of travel.		

COMPANY NAME: _____

BY: _____

c) Rods of inside and outside packing cylinders must be induction hardened to a surface hardness of 55-65 Rockwell C scale.		
d) Rods of all cylinders shall be chrome plated.		
e) All packing cylinder end lugs shall be forged steel material.		
13)Electrical		
a) All electrical wiring connectors to be automotive double-seal, with wiring in split convoluted loom.		
b) All wiring connections to be soldered with rubber-molded covering or crimp type connectors with shrink-wrap. Unprotected wiring in any application is unacceptable.		
c) All electrical limit switches shall be epoxy impregnated to minimize effects of excess moisture.		
14)Lighting		
a) Clearance, back up, and directional lights shall be Lexan lens, shock mounted in a protective housing. The whole unit shall be pop out and replaceable.		
b) All lights shall be provided in accordance with FMVSS #108, ANSI Z245.1-1999 plus mid body turn signals on each side of the body and a center brake light on the rear.		
15)Painting		
a) First Step – Smoothing - All weld slag, splatter or roughness shall be removed with the appropriate hand tools. No sand, shot or glass air blasting shall be permitted to eliminate contamination and possible damage to bearings or pin surfaces and possible distortion of higher gauge sheet materials used on the body.		
b) Second Step – Purgation – A heated pressure wash shall drench the entire body with a highly concentrated alkaline degreaser and emulsion soap to clean all metal surfaces. This solution shall soak through and break down the oil film and other contaminants found on steel. The solution shall be non-corrosive to metals and shall be environmentally friendly.		

COMPANY NAME: _____

BY: _____

c) Third Step – Washing – The heated pressure washing shall thoroughly remove all soap residue. This process shall be completely safe to use on plastics, rubber, leather and fabric, and be safe on all metals. The solution shall be approved for all types of steel structures, machines, bodies, etc., where harsh environmental conditions are present.		
d) Fourth Step – Sealing – The entire body shall be coated with an application of the patented Dry-In-Place Seal from Henkel Surface Technologies. This process shall dramatically improve the surface finish's resistance to rusting that occurs from general wear and tear, and shall provide improvements to paint adhesion and other related corrosion that occurs over the life of the products. This shall help retain the "as new" appearance of the factory paint surface.		
e) Fifth Step – Primer Coat Paint – The seal coat shall be painted using Sikkens Autocoat LV epoxy primer or equivalent in an amount necessary to achieve a dry thickness of one (1) mil.		
f) Sixth Step – Finish Top Coat Paint – A high luster finish coat shall be applied using Sikkens Autocryl/acrylic urethane or equivalent. An ample amount shall be applied to achieve a dry thickness of two and one-half (2 ½) mil and shall result in a finish of 3 ½ mil minimum thickness and up to 4 mil maximum thickness.		
16) Lettering on Garbage Body		
a) Lettering may be painted or vinyl on two 8' X 3', 14-gauge aluminum plates mounted on both sides of the body. Smooth sided garbage bodies of equivalent space may have the lettering painted or vinyl applied directly.		
b) Black 4-inch lettering will read as follows: City of Asheville Sanitation Division		
c) Green 6-inch lettering will read as follows: "Our Quality of Service, Your Quality of Life"		
d) Final approval of lettering layout required after award to the successful bidder.		

COMPANY NAME: _____

BY: _____

17)Body Optional Equipment		
a) Dual Diamondback "Third Man" cart trippers with factory installed valve, plumbing and handles for dual tipper application. Cart tipper hydraulics to have quick disconnects for easy removal.		
b) Rear amber lens strobe light with in-cab control switch. <u>Whelen brand required. Whelen amber strobe beacon part # 2022HP is acceptable.</u>		
c) Heavy duty contractors package to include upgraded 1/4-inch steel plate hopper.		
18)Truck Chassis		
a) GVWR – 51,000 lbs minimum.		
b) Wheelbase, cab to axle and axle to end of frame overhang, dimensions are to be determined with the body supplier to result in the best possible weight distribution and to maximize the legal payload the truck can carry. <u>It is the vendor's responsibility to design the unit and guarantee legal load limits and weight distribution using average weights under normal conditions.</u>		
c) Cab - Forward tilt, cab-over engine with D.O.T. approved seating for three.		
i) Driver's seat air cushion, passenger seats standard offered. Driver and passenger seats to accommodate a total of three operators. Sun visors both sides.		
ii) HVAC – heater, defroster, fresh air ventilation and air conditioning.		
iii) Electric windshield wipers and washers with intermittent wiper capability.		
iv) Instruments with gauges for speedometer, odometer, tachometer, oil pressure, dual air pressure, voltmeter, engine water temperature and fuel.		
v) Engine Warning/Shutdown Device – Warning buzzer with separate lights for engine low oil pressure and engine high water temperature. Low air warning with audible and visible alarms.		

COMPANY NAME: _____

BY: _____

vi) West Coast type mirrors, retractable, satin aluminum finish with manufacturer's standard arms. Both mirrors adjustable remote controlled and heated. Convex mirrors, clamp-on type, mounted both sides.		
vii) Horn – Air mounted below front of cab.		
viii) AM & FM Radio standard offered.		
ix) Color – Exterior white. Interior trim black or gray.		
x) D.O.T. Safety Kit to include a 20-lb ABC fire extinguisher, flares, and triangle reflector.		
d) Lighting – Must comply with all federal and state requirements.		
e) Frame – double channel, prime paint coated and top coated in black with (2) front-mounted tow hooks. Audible Back up Alarm.		
f) Fuel Tank – (1) Aluminum or stainless steel construction mounted on left or right side, 75-gallon minimum capacity.		
g) Front Suspension – Total spring axle rating is 16,000 lbs minimum with double-acting heavy duty shock absorbers. C.R. "Scotseal Plus" type wheel seals.		
h) Rear Suspension – Hendrickson tandem for refuse application with greasable bronze center bushings. Total spring rating is 40,000 lbs minimum.		
i) Rear Axle – Single speed, single reduction tandem rear axle with power divider. Power divider control mounted in the cab with a warning light and alarm indicating when the power divider is engaged. <u>Unit shall be geared for a maximum highway speed of 60-62 mph.</u> C.R. "Scotseal Plus" type wheel seals.		
j) Brakes – ABS		
i) Air compressor 13.2 CFM minimum with tank. Air dryer and automatic water separator/drain.		
ii) Front brakes – Meritor refuse service air type, 16.5" x 6" s-cam with automatic slack adjusters. Non-asbestos lining.		

COMPANY NAME: _____

BY: _____

iii) Rear brakes - Meritor refuse service air type, 16.5" x 7" s-cam with automatic slack adjusters. Non-asbestos lining.		
iv) Parking brake – Spring set on both rear axles.		
k) Wheels & Tires		
i) Front - 22.5" x 8.5" wheel, steel disc with pilot mount . Tire is 20-ply, tubeless radial with XYZ tread. Michelin & Goodyear considered equal. Specify size.		
ii) Rear – 22.5" x 8.25" wheel, steel disc with plot mount, Tire is 16-ply, tubeless radial with mud/snow XM+4 tread. Michelin & Goodyear considered equal. Specify size.		
l) Engine – Caterpillar Acert Technology C-7 300 hp, 850 lb-ft torque minimum or equivalent. Peak torque rpm and % torque rise programmed for refuse truck use in a mountainous environment. <u>Caterpillar or Cummins engine required.</u>		
i) Two-stage air filter with safety element.		
ii) Full-flow spin-on oil filter.		
iii) Fuel filter with water separator & drain.		
iv) Engine block heater		
v) Front adaptor flange for front mounted PTO.		
vi) Coolant permanent, antifreeze protection to minus 40 degrees F.		
vii) Alternator is 130 amps rated minimum.		
viii) Exhaust is vertical, single muffler aluminized corrosion resistant material with a heat shield and rain cap.		
m) Transmission – Allison automatic 6-speed refuse service rated and matched to the engine application. Oil to water type oil cooler.		
n) Steering – Power assisted with adjustable tilt steering wheel.		
o) Batteries – (2) 12-volt maintenance free, 2,000 CCA rated. Battery shutoff switch at battery box.		
19)Warranties - Vendor to supply all warranty statements applicable to the following requirements. All warranties cover 100% of all parts & labor.		

COMPANY NAME: _____

BY: _____

a) Body manufacturer for a period of three years minimum.		
b) Engine for a period of three years minimum.		
c) Transmission for a period of five years minimum.		
d) Truck chassis manufacturer for a period of two years minimum.		
e) All equipment not covered by the previous warranties shall be covered for a minimum of one year.		
20)Service Facilities: The equipment/chassis manufacturer shall operate a service facility capable of performing repairs associated with the equipment they represent. This facility shall be located within 25 miles of the City of Asheville, Fleet Management facility at 173 S. Charlotte St. The service facility shall be stocked with common replacement and high wear parts, as may be designated by the equipment manufacturer, and approved by the City of Asheville		
21)Manuals – All Units to have a one complete set of parts & service manuals when delivered.		
22)Training - Operator/mechanic training will be conducted at the customer's premises at no charge to the customer		
23) Acceptance – Prior to acceptance of this bid item and final payment of invoice, this bid item shall be checked against the above written specifications. The item offered for bid must meet or exceed these specifications as agreed to and stated by the vendor.		
24)Documentation - All required title licensing paperwork and a copy of the invoice must be with the vehicle at the time of delivery. <u>Any missing paperwork at the time of delivery will result in delay of payment.</u>		
25)Delivery F.O.B.: City of Asheville, Fleet Management, 173 South Charlotte Street, Asheville, NC 28801		

CONSIDERATION GIVEN IN THE EVALUATION OF ALTERNATE BIDS FOR AWARD WILL INCLUDE HISTORICAL OPERATING COST/MILE DATA, DELIVERY CAPABILITY, LOCAL DEALER WARRANTY & SERVICE COSTS AND OTHER FACTORS ROUTINELY CONSIDERED IN BID EVALUATIONS.

COMPANY NAME: _____

BY: _____

BID REQUEST NO. 637-07

ONE (1) 20-YARD REAR LOADER REFUSE COLLECTION VEHICLE
FOR THE CITY OF ASHEVILLE PUBLIC WORKS DEPARTMENT

THE UNDERSIGNED AFIRMS THAT THE PROPOSAL MADE HERE-IN IS MADE WITHOUT ANY CONNECTIONS WITH ANY OTHER PERSON, OR PERSONS, MAKING ANY OTHER PROPOSAL FOR THE ABOVE ITEM(S): THAT IT IS IN ALL RESPECTS FAIR AND WITHOUT COLUSION OR FRAUD:

THAT _____ (FIRM NAME) IS NOT CONNECTED IN ANY OFFICIAL CAPACITY WITH THE CITY OF ASHEVILLE, AND THAT NO PERSON, OR PERSONS, ACTING IN SUCH CAPACITY ARE DIRECTLY, OR INDIRECTLY, INTERESTED HEREIN OR IN ANY OF THE PROFIT ARISING OR ANTICIPATED FROM THIS TRANSACTION.

IN MAKING THIS PROPOSAL, IT IS UNDERSTOOD AND AGREED, THAT THE CONDITIONS SET FORTH IN THE ADVERTISEMENT FOR BIDS, INSTRUCTIONS TO BIDDERS, TERMS AND CONDITIONS AND SPECIFICATIONS TOGETHER WITH THE PROPOSAL SHALL FORM A PART OF AND BE CONSTRUED WITH THE CONTRACT MADE UNDER THE SAME.

THE ACCEPTANCE OF THIS PROPOSAL BY THE CITY OF ASHEVILLE, AS EVIDENCED BY THE ISSUANCE OF A CITY OF ASHEVILLE PURCHASE ORDER, WILL BE HELD TO BE A MUTUAL AGREEMENT AS TO EACH AND EVERY CLAUSE OF THIS PROPOSAL AND TO CONSTITUTE A CONTRACT BETWEEN THE PARTIES HERETO.

FIRM NAME: _____

ADDRESS: _____

BY: _____

TITLE: _____